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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/024,243	12/21/2001	Yoshiro Shiokawa	111522	3419
25944 7	590 , 03/22/2005		EXAMINER	
OLIFF & BERRIDGE, PLC			JOHNSTON, PHILLIP A	
P.O. BOX 19928 ALEXANDRIA, VA 22320			ART UNIT	PAPER NUMBER
	·		2881	
			DATE MAIL ED: 03/22/2005	ξ.

Please find below and/or attached an Office communication concerning this application or proceeding.

		4	
	Application No.	Applicant(s)	
Office Action Summan	10/024,243	SHIOKAWA ET AL.	
Office Action Summary	Examiner	Art Unit	
The MAILING DATE of this communication com	Phillip A. Johnston	2881	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w.  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be to within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS fror cause the application to become ABANDON	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).	
Status			
<ul> <li>1) ⊠ Responsive to communication(s) filed on <u>05 Ja</u></li> <li>2a) ☐ This action is FINAL. 2b) ⊠ This</li> <li>3) ☐ Since this application is in condition for alloward closed in accordance with the practice under E</li> </ul>	action is non-final. nce except for formal matters, pr		
Disposition of Claims			
<ul> <li>4)  Claim(s) 1-10 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdraw</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 1-10 is/are rejected.</li> <li>7)  Claim(s) is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or</li> </ul>	vn from consideration.		
Application Papers	•		
9)☐ The specification is objected to by the Examiner 10)☒ The drawing(s) filed on 21 December 2001 is/ar Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti 11)☐ The oath or declaration is objected to by the Ex	re: a)⊠ accepted or b)⊡ objecd drawing(s) be held in abeyance. Se don is required if the drawing(s) is ol	ee 37 CFR 1.85(a). pjected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119		•	
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receiv r (PCT Rule 17.2(a)).	tion No red in this National Stage	
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4)  Interview Summar Paper No(s)/Mail D 5)  Notice of Informal 6)  Other:		

## Detailed Action

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1. This Office Action is submitted in response to RCE / Amendment filed 1-05-2005, wherein claims 1-8 have been amended. Claims 1-10 are pending.

## Claims Rejection - 35 U.S. C. 102

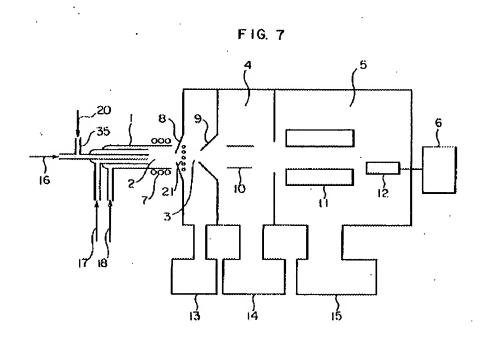
- 2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
  - (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
  - 3. Claims 1,2,5, and 6 are rejected under 35 U.S.C. 102 (b) as being clearly anticipated by Mitsui, U.S. Patent No. 4, 948,962.

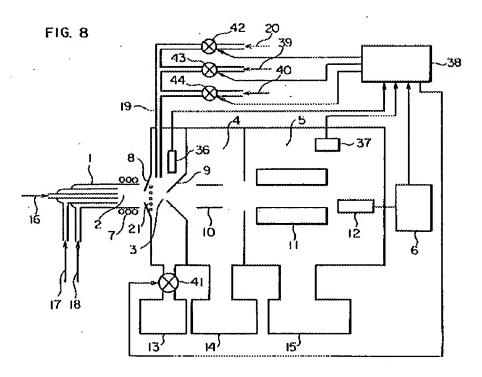
Mitsui (962) discloses a mass spectrometer that includes the following;

- (a) A means for introducing plural reactant gases which can bring about an energy transfer reaction with background ions and excited molecules, thus quenching (absorbing the excess energy) the background ions and excited molecules which interfere with the metal ions being detected in the mass spectrometer, as recited in claims 1,2,5, and 6. See Column 2, line 54-63; Column 3, line 6-51; and Column 12, line 47-60;
- (b) The use of a metal ion source, as recited in claims 1,2,5, and 6. See Column 3, line 2-5;
- (c) The use of plural reactant gases, as recited in claims 1,2,5, and 6. See Column 10, line 3-12; and Figures 7 and 8 below;

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(d) Control mechanism 38 that controls selection of the reactant gas by transmitting measured spectra to controller 38. See Column 10, line 17-37.





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## Claims Rejection - 35 U.S.C. 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

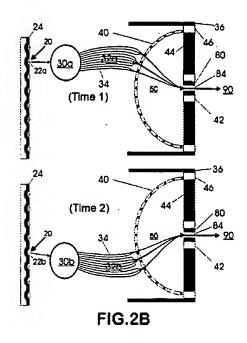
- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which the subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 3,4, and 7-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 4, 948,962, to Mitsui, in view of Sheehan, U.S. Patent No. 6,744,041.

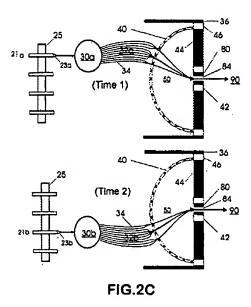
Mitsui (962) as described above discloses nearly all the limitations of claims 3,4, and 7-10 but fails to teach the use of plural emitters as recited in claims 3,4, and 7-10.

However, Sheehan (041) discloses the use of two Maldi ion sources 22a and 22b, as well as, two electrospray sources 21a and 21b, arranged off-axis, as recited in claims 3,4, and 7-10. See Column 7, line 47-67; and Figures 2B and 2 C below.

Therefore it would have been obvious to one of ordinary skill in the art that the plasma ion source mass spectrometer apparatus and method of Mitsui (962) can be modified to use the plural ionization sources of Sheehan (041), to provide election of a specific source of ions, which can be accomplished in a time dependent manner by controlling the generation process of ions (e.g. pulse of laser, application of voltage to needle).

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Conclusion

6. Any inquiry concerning this communication or earlier communications should be

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directed to Phillip Johnston whose telephone number is (571) 272-2475. The examiner

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can normally be reached on Monday-Friday from 7:30 am to 4:00 pm. If attempts to

reach the examiner by telephone are unsuccessful, the examiners supervisor John Lee

can be reached at (571) 272-2477. The fax phone number for the organization where

the application or proceeding is assigned is 703 872 9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

PJ

March 11, 2005

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800